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By the end of the course, you should be able to meet the following objectives:

- Describe the vRealize Automation architecture and use cases in cloud environments
- Manage vRealize Automation entities on VMware and third-party virtual and cloud infrastructures
- Configure and manage Cloud Accounts, Projects, Flavor Mappings, Image Mappings, Network Profiles,
- Storage Profiles, Volumes, Tags, and Services
- Create, modify, manage, and deploy Blueprints
- Connect to a Kubernetes Cluster and manage images and deployments
- Customize services and virtual machines with cloudConfig
- Configure and manage the Service Broker
- Configure and manage ABX actions, custom properties, event broker subscriptions, and VMware
- vRealize® Orchestrator™ workflows
- Integrate with vRealize Orchestrator
- Install vRealize Automation with VMware vRealize® Suite Lifecycle Manager™
- Describe Cloud Automation Services (Cloud Assembly and Code Stream).
- Use logs and CLI commands to monitor and troubleshoot vRealize Automation



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Outline:

1. Course Introduction

- Introductions and course logistics
- Course objectives

2. vRealize Automation Overview and Architecture

- Describe the purpose and functionality of vRealize Automation
- Describe the vRealize Automation architecture
- Describe the use of VMware Workspace ONE® Access™
- Describe the relationship between Kubernetes clusters, containers, and vRealize Automation services
- Describe CLI commands for vRealize Automation 8 cluster management
- Describe Cloud Assembly
- Describe Service Broker
- Describe Code Stream

3. vRealize Automation Installation

- List the different vRealize Automation deployment types
- Explain the purpose of vRealize easy installer
- Recognize the vRealize Automation installation process

4. Authentication and Authorization

- Identify the steps involved in integrating Workspace One with Active Directory
- Recognize features of Workspace One
- Recognize the user roles available in vRealize Automation
- Identify the key tasks performed by each user role



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5. Basic Initial Configuration

- Quickly create a basic configuration with a cloud account, cloud zone, project, flavor mapping, and image mapping

6. Creating and Deploying a Basic Blueprint

- Configure a basic blueprint
- Deploy a basic blueprint

7. Tags and Storage Configuration

- Configure tags
- Configure storage profiles
- Describe volumes
- Use tags and storage profiles in a blueprint

8. Advanced Blueprints

- Use YAML coding in blueprints, including user inputs, text formatting, and conditional expressions
- Create a blueprint for multiple clouds
- Use iterative design and version control in blueprints

9. Integrating NSX-T Data Center

- List the capabilities and use cases of NSX-T Data Center
- Describe the NSX-T Data Center architecture and components
- Integrate NSX-T Data Center with vRealize Automation
- List the supported network profiles in vRealize Automation
- Use NSX-T Data Center components to design a multitier application blueprint
- Identify the network and security options available in design canvas



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10. Cloud Accounts

- Configure and use an AWS cloud account
- Configure and use an Azure cloud account
- Configure and use a Google Cloud Platform cloud account

11. Service Broker

- Describe the use case of Service Broker
- Define content source and content sharing
- Define Service Broker policy enforcement
- Use custom forms for catalog items

12. Customization of Blueprints

- Describe cloudConfig and Cloud-Init
- Create vSphere virtual machine templates that can be used with Cloud-Init
- Use cloudConfig to customize the hostname
- Use cloudConfig to create users
- Use cloudConfig to install software
- Use cloudConfig to manage the power state
- Use cloudConfig to format disks and mount volumes

13. vRealize Automation Extensibility

- Describe ABX actions
- Set custom properties
- Create event topics
- Create subscriptions
- Create and use workflows
- Integrate vRealize Automation with vRealize Orchestrator



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14. vRealize Automation and Kubernetes

- Describe Kubernetes
- Integrate vRealize Automation with Kubernetes clusters

15. vRealize Automation Monitoring, Logs, and Troubleshooting

- Describe different vRealize Automation log files
- Troubleshoot vRealize Automation
- Replace a vRealize Automation service pod
- Snapshot the vRealize Automation appliance